FIG. 1a

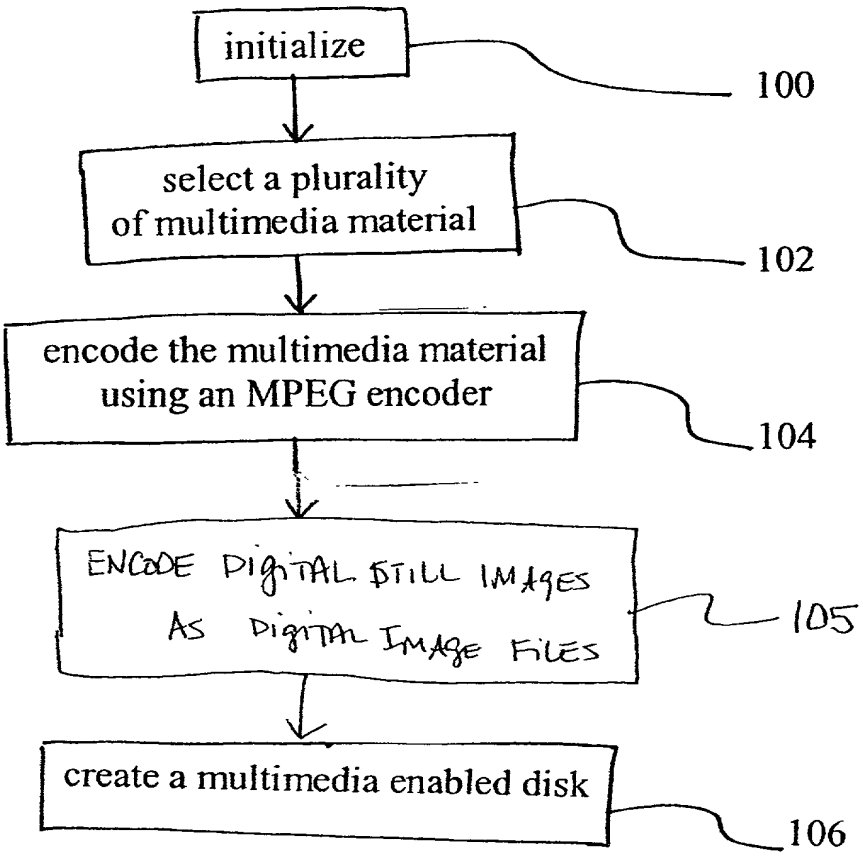
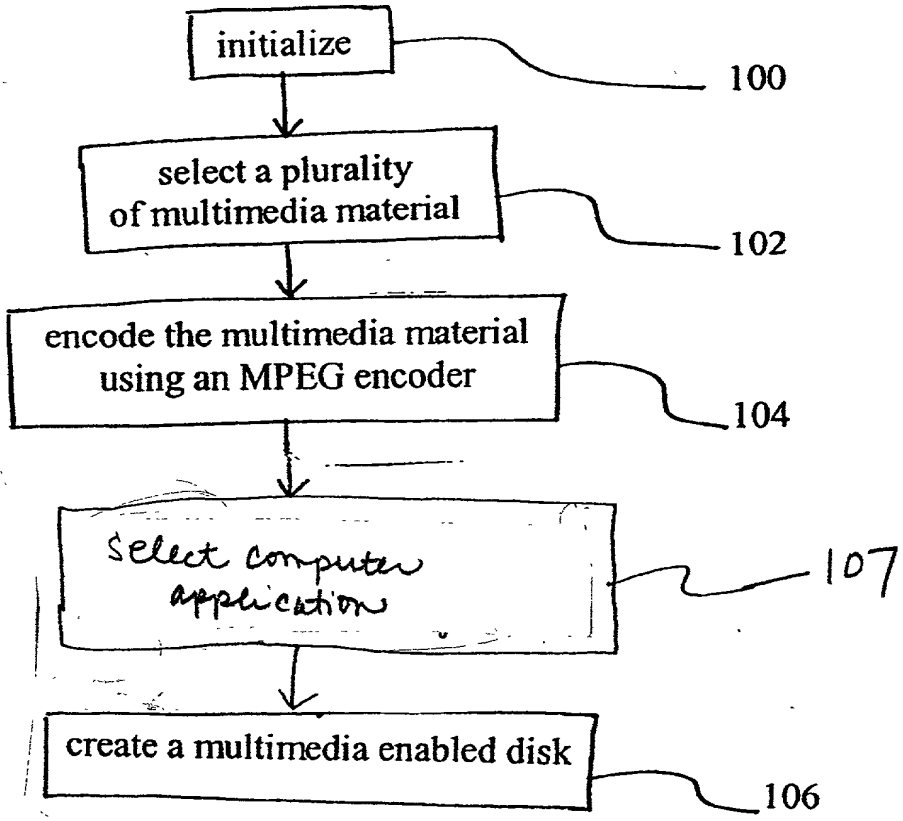

initialize
100
select a plurality of multimedia material
102
encode the multimedia material using an MPEG encoder
104
ENCODE DIGITAL STILL IMAGES AS DIGITAL IMAGE FILES
105
create a multimedia enabled disk
106

FIG. 1b


initialize
100
select a plurality of multimedia material
102
encode the multimedia material using an MPEG encoder
104
Select computer application
107
create a multimedia enabled disk
106

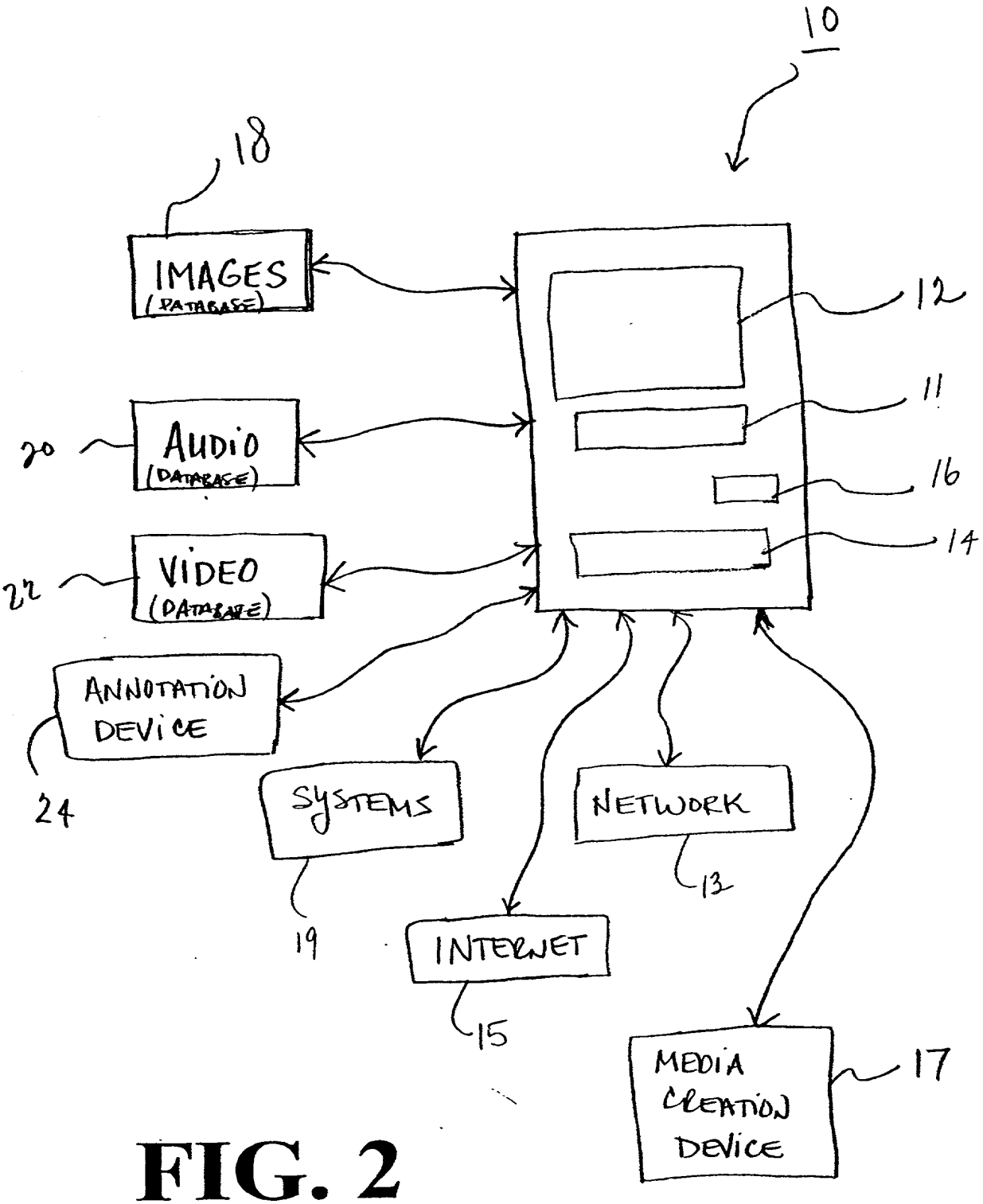

10
18
IMAGES
(DATABASE)
12
11
20
AUDIO
(DATABASE)
16
14
22
VIDEO
(DATABASE)
ANNOTATION
DEVICE
24
SYSTEMS
19
NETWORK
13
INTERNET
15
MEDIA
CREATION
DEVICE
17

FIG. 2

FIG. 3

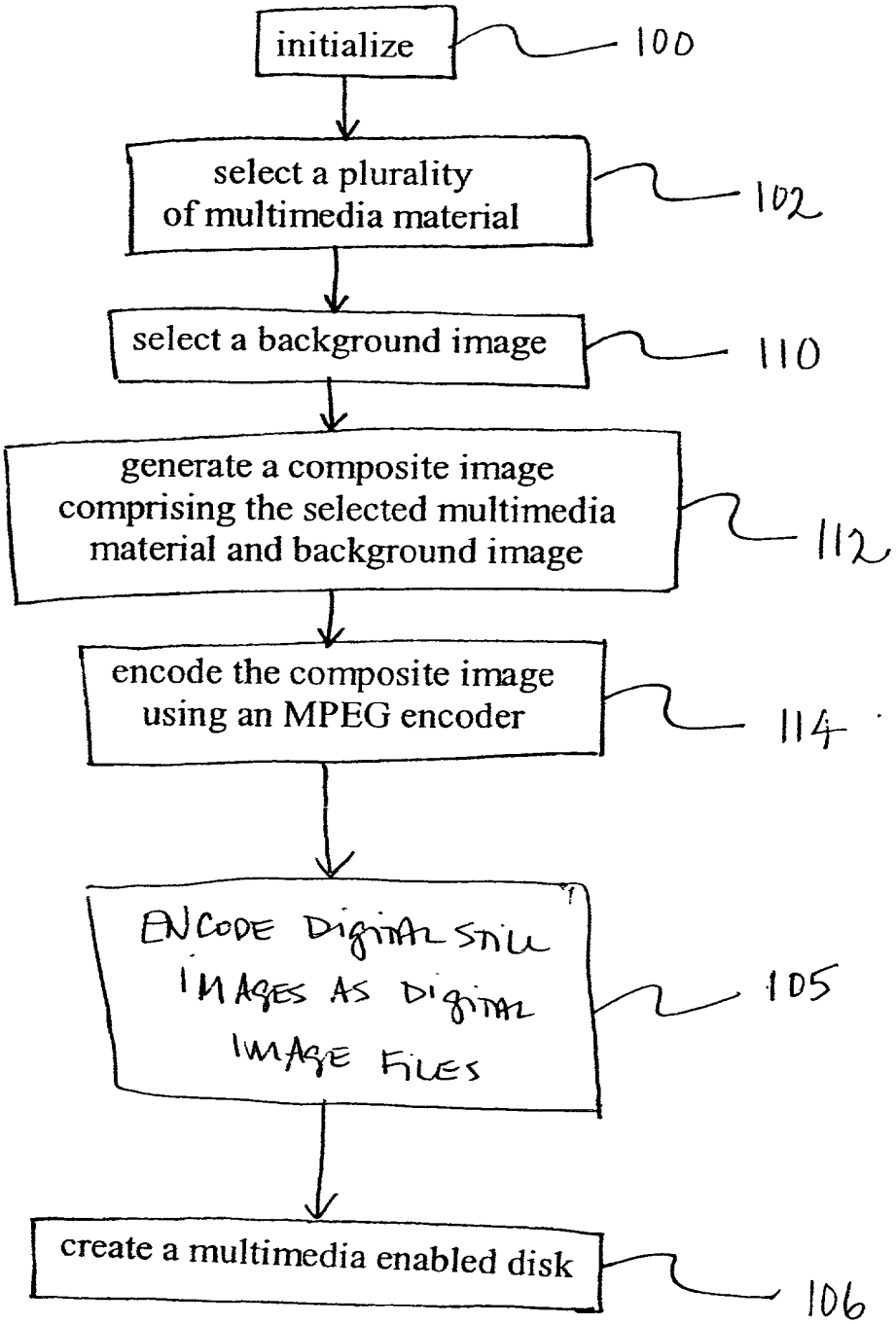

initialize
100
select a plurality of multimedia material
102
select a background image
110
generate a composite image comprising the selected multimedia material and background image
112
encode the composite image using an MPEG encoder
114
ENCODE DIGITAL STILL IMAGES AS DIGITAL IMAGE FILES
105
create a multimedia enabled disk
106

FIG. 4

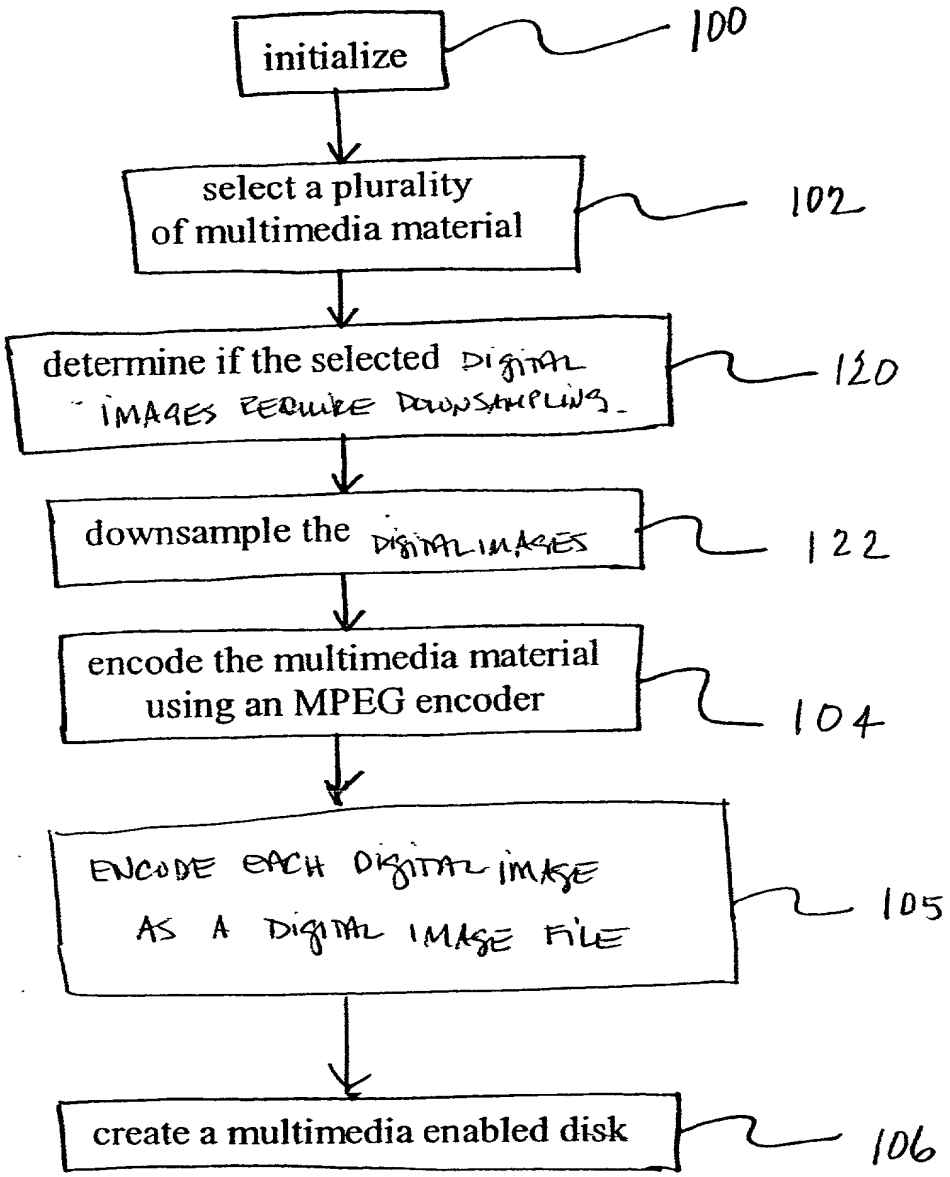

initialize
100
select a plurality of multimedia material
102
determine if the selected DIGITAL IMAGES REQUIRE DOWNSAMPLING.
120
downsample the DIGITAL IMAGES
122
encode the multimedia material using an MPEG encoder
104
ENCODE EACH DIGITAL IMAGE AS A DIGITAL IMAGE FILE
105
create a multimedia enabled disk
106

FIG. 5

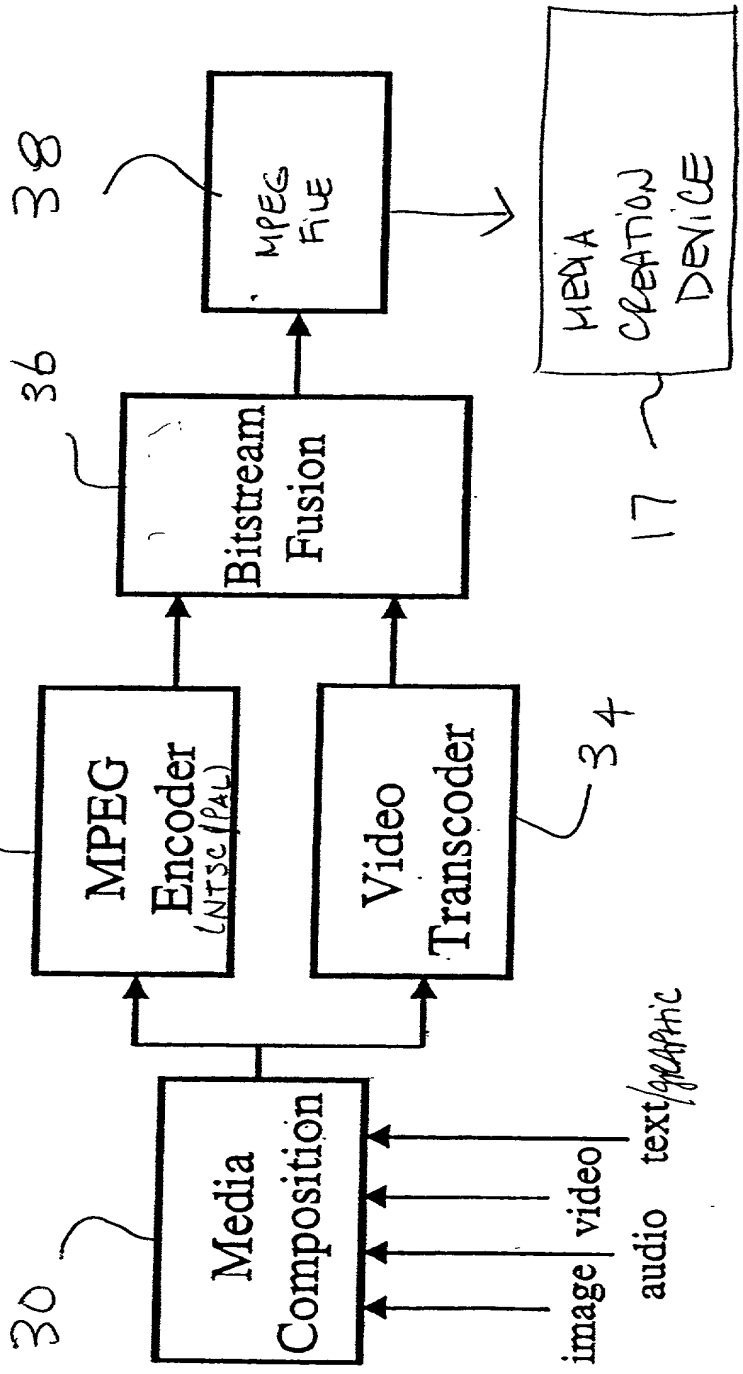

30
Media Composition
image
video
audio
text/graphic
32
MPEG Encoder (NTSC/PAL)
34
Video Transcoder
36
Bitstream Fusion
38
MPEG File
17
MEDIA CREATION DEVICE

FIG. 6

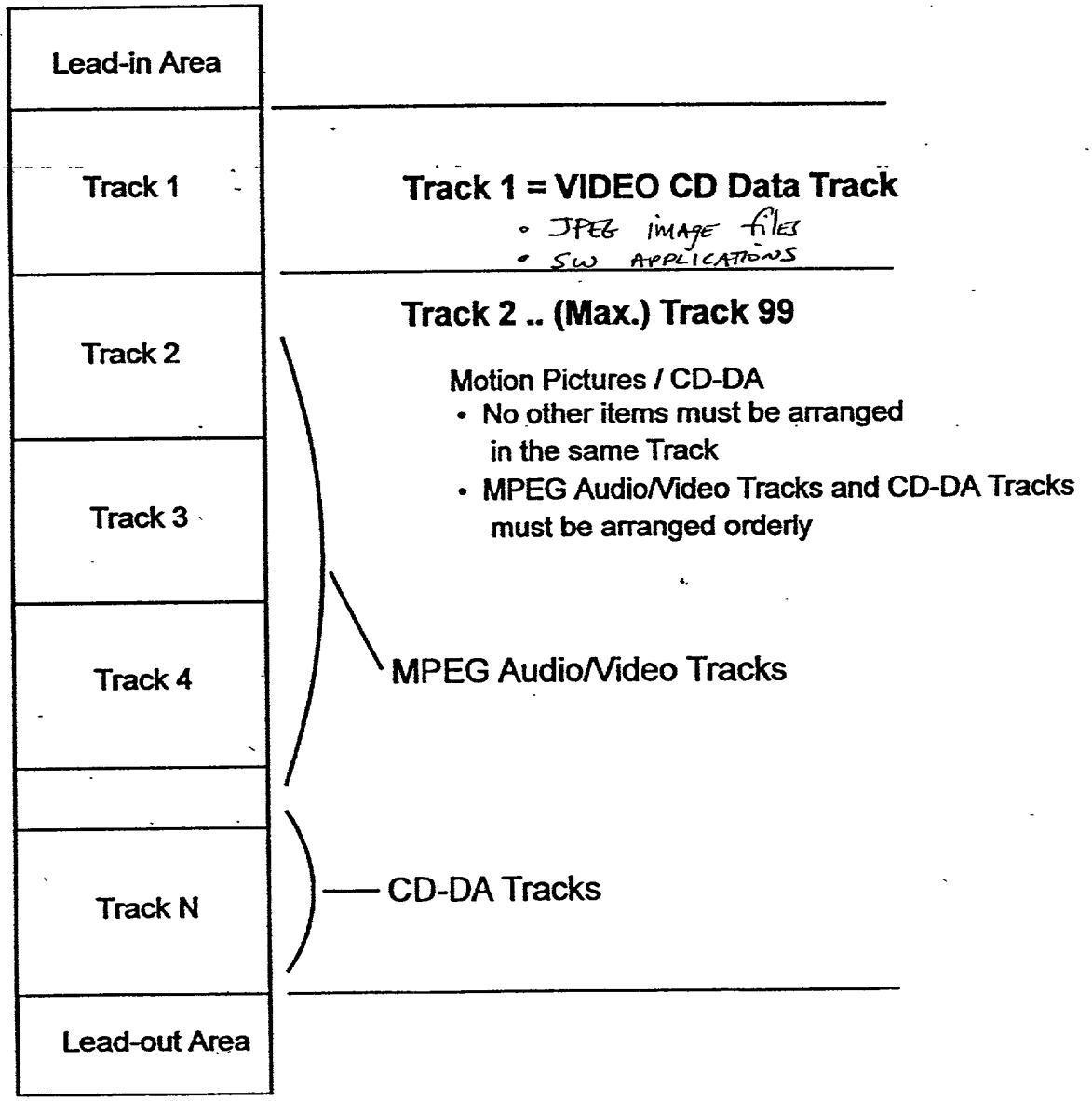

Lead-in Area
Track 1
Track 2
Track 3
Track 4
Track N
Lead-out Area
Track 1 = VIDEO CD Data Track
• JPEG IMAGE files
• SW APPLICATIONS
Track 2 .. (Max.) Track 99
Motion Pictures / CD-DA
• No other items must be arranged in the same Track
• MPEG Audio/Video Tracks and CD-DA Tracks must be arranged orderly
MPEG Audio/Video Tracks
CD-DA Tracks

FIG. 7

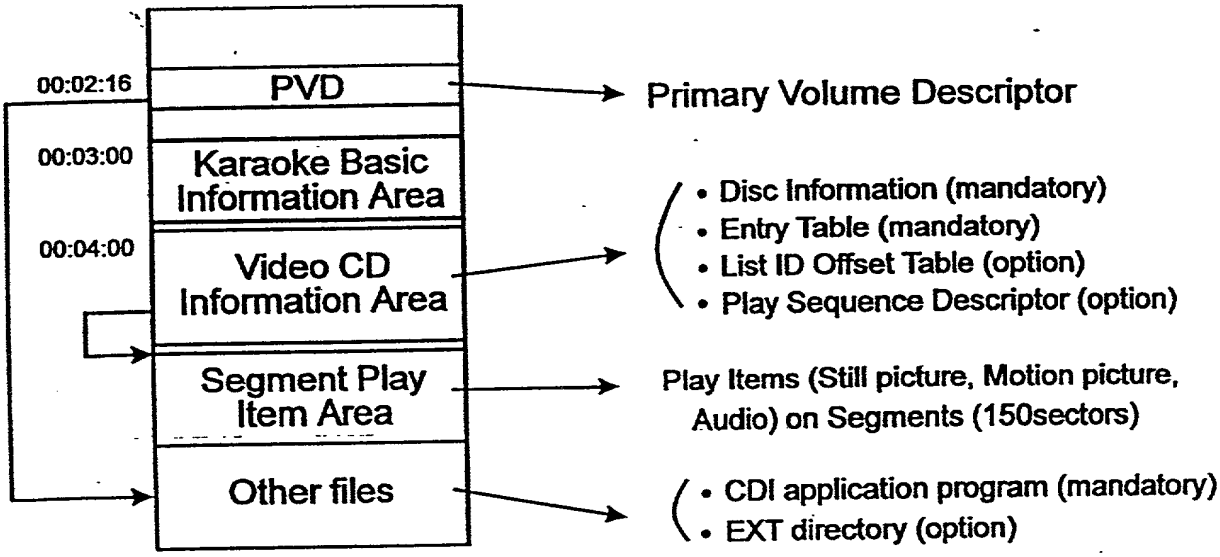


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FIG. 8

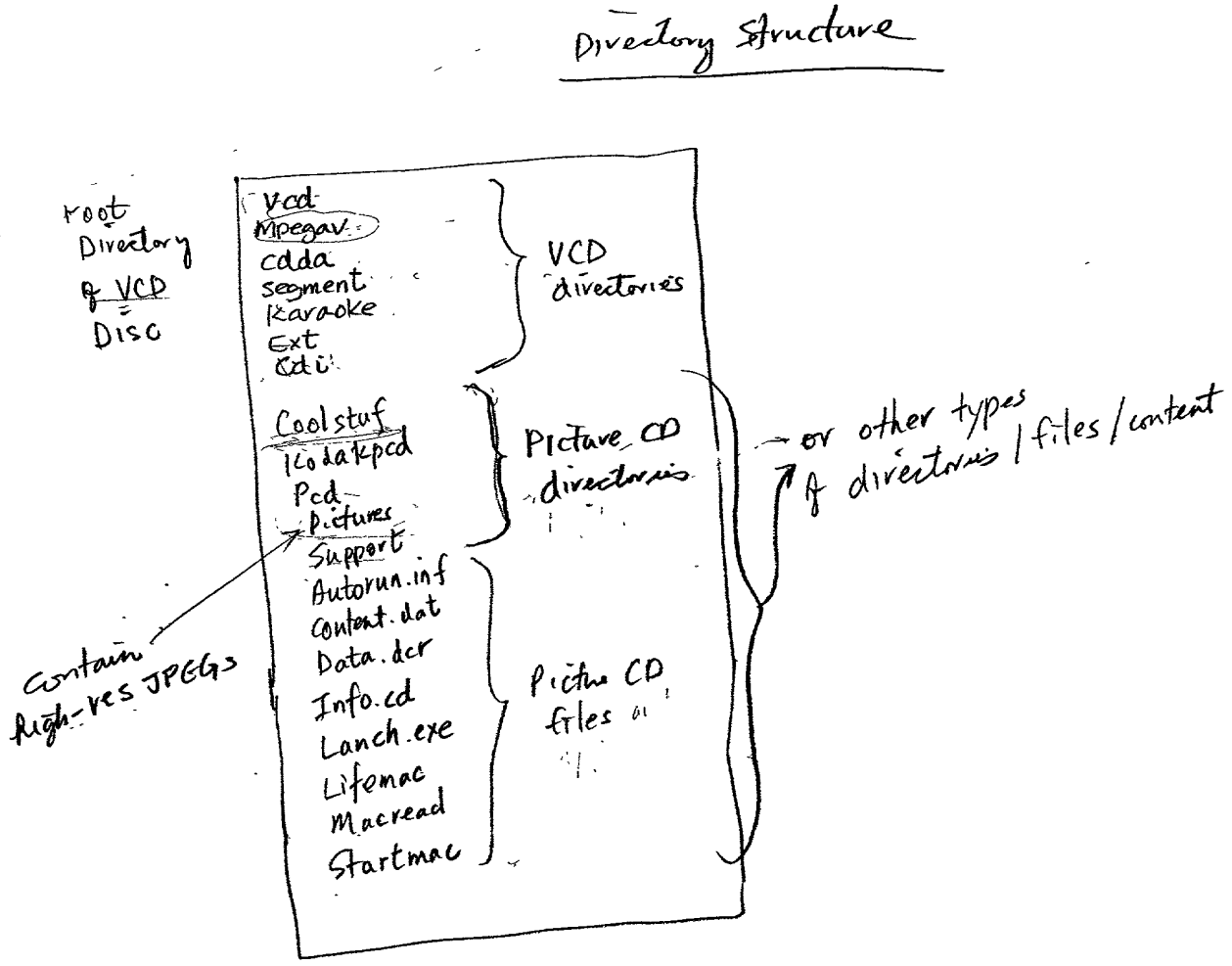

Directory Structure
Root Directory of VCD Disc
vcd
mpegav
cdda
segment
karaoke
ext
cdi
VCD directories
Coolstuf
Kodakpcd
Pcd_
Pictures
Support
Picture CD directories
Autorun.inf
Content.dat
Data.dcr
Info.cd
Lanch.exe
Lifemac
Macread
Startmac
Picture CD files
Contain high-res JPEGs
or other types of directories / files / content

FIG 9

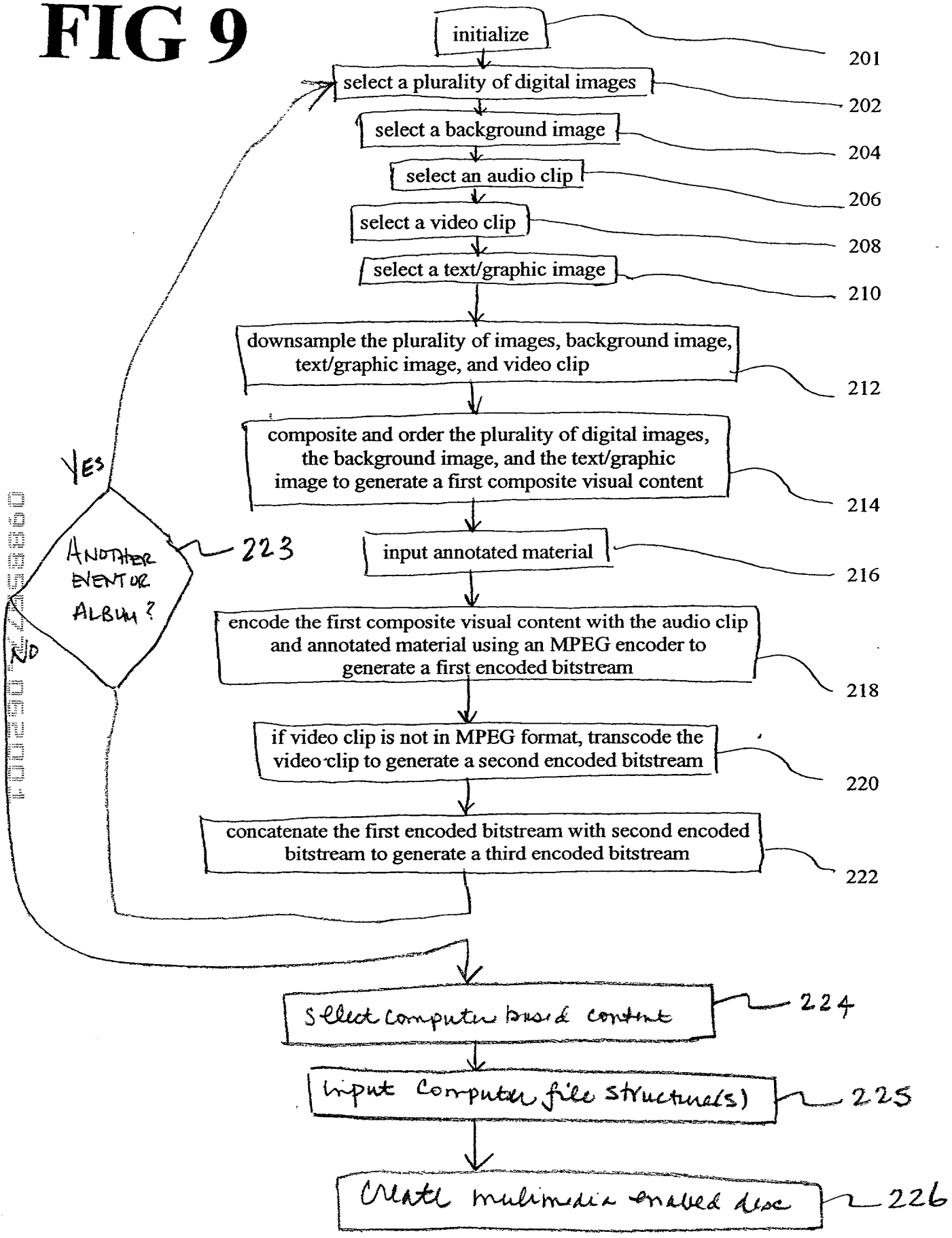
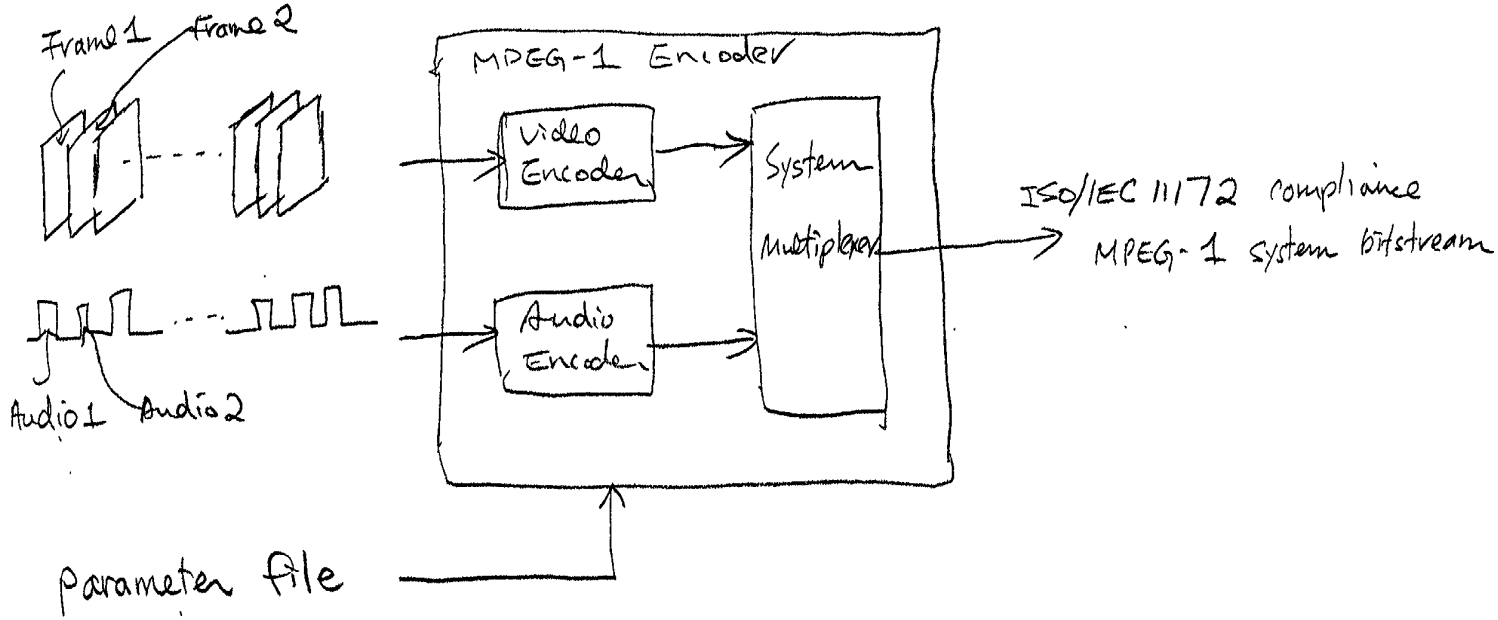

initialize
201
select a plurality of digital images
202
select a background image
204
select an audio clip
206
select a video clip
208
select a text/graphic image
210
downsample the plurality of images, background image, text/graphic image, and video clip
212
composite and order the plurality of digital images, the background image, and the text/graphic image to generate a first composite visual content
214
input annotated material
216
encode the first composite visual content with the audio clip and annotated material using an MPEG encoder to generate a first encoded bitstream
218
if video clip is not in MPEG format, transcode the video clip to generate a second encoded bitstream
220
concatenate the first encoded bitstream with second encoded bitstream to generate a third encoded bitstream
222
YES
ANOTHER EVENT OR ALBUM ?
223
NO
Select computer based content
224
Input Computer file structure(s)
225
Create multimedia enabled disc
226

FIG 10


Frame 1
Frame 2
MPEG-1 Encoder
Video Encoder
System Multiplexer
ISO/IEC 11172 compliance MPEG-1 system bitstream
Audio Encoder
Audio 1
Audio 2
parameter file